

Dehydro-Tech Corporation

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FAP 2183

Page 3 - Food and Drug Administration

CARVER-GREENFIELD PROCESS

(H) Environmental Impact Statement. The use of this food additive will comply with environmental regulations and these are listed below.

The system for water removal from animal feeds is a closed system allowing only discharge of non-condensable gases, distilled water and moisture free product. The environmental impact on these products is described below:

1. Water - The water will contain Isopar H in a quantity of approximately 20 parts per million since it is slightly soluble. Any Isopar oil that distills over is recovered and returned to the process for reuse. The water leaving the process is bright and clear and is readily and completely biodegradable.

We refer you to Microbiology for Sanitary Engineers 1962 by Ross E. McKinney, McGraw Hill which describes biodegradability for soluble saturated petroleum hydrocarbons such as Isopar H and it is pointed out that they are readily and completely biodegraded to carbon dioxide and water.

2. Gaseous Effluents - These are the normal gases, such as air and other more condensable gases. The Isopar H will be condensed and returned to the process. Since the system is closed, the amount of Isopar H discharged to the atmosphere will be well below the OSHA TLV of 300 p.p.m. and to be less than 10% of this value. This compares with 500 p.p.m. OSHA TLV for Stoddard Solvent.

3. Moisture free product is the animal feed product and will contain Isopar H contents from 0.1% or less to a maximum of about 1% of the dry weight of the product. As described in our bulletin the Isopar H is removed by steam stripping (steam distillation) and there is an economic balance for quantity of steam used, temperature of product and equipment size and nature of material. In any case, the final ration will contain a maximum of .06% mineral oil content in accordance with F.D.A. regulations.

Yours very truly,

Petitioner - Dehydro-Tech Corporation

By 
PRESIDENT

CG:ds
enc.

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